

# DYNAMIC X-TRA



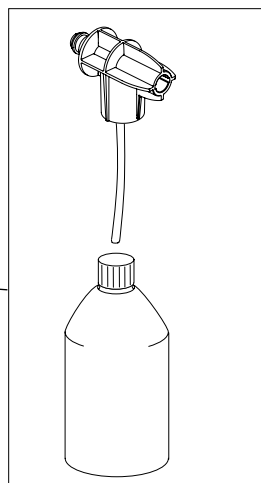
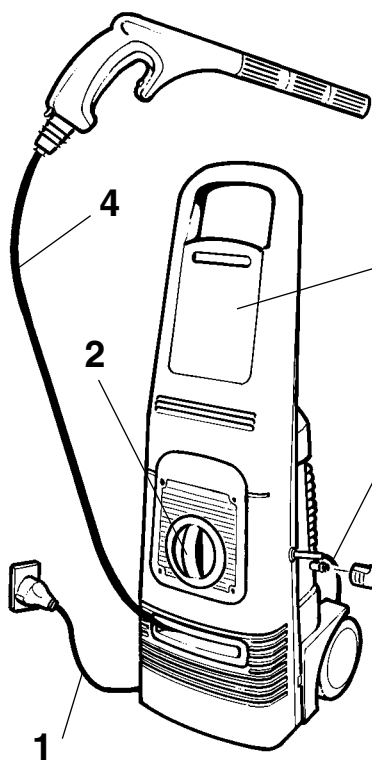
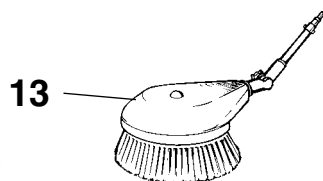
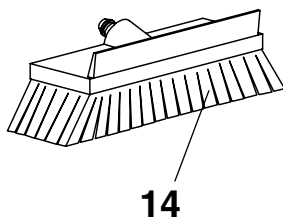
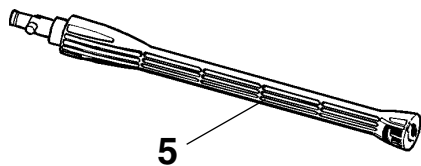
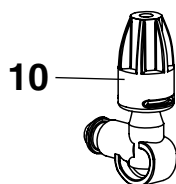
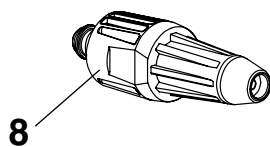
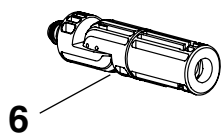
**ALTO®**  
Why  
Compromise™

**EN** Instruction manual

2003-10-20

**Wap  
KEW**

TECHNOLOGIES



**We congratulate you on your new ALTO High Pressure Washer**

with the new „**Click and Clean**“ connector system.  
We are confident that the new high pressure washer of ALTO will justify your expectations of quick and effective cleaning. Now you have a cleaning device which will facilitate your future cleaning tasks and make them more effective. Many tasks which were previously difficult, can now be solved in a few minutes and with a much better result.

If, contrary to expectations, problems should arise which cannot be remedied by means of the information in section 7.0, the ALTO service organization will be at your disposal.

ALTO is a global concern with a comprehensive knowledge within development and manufacturing of efficient and environmentally friendly cleaning solutions. Our product range comprises cleaning solutions for selected customer groups - from machines for domestic use to big industrial cleaning systems.

The expertise of ALTO is cleaning focusing the need of the customer. The key word is confidence - we name it Total Cleaning Confidence™. Our wish is that you as a customers should feel quite confident that the cleaning equipment you buy from us is the most efficient and that it fulfils all of your expectations.

Best regards  
**ALTO Danmark A/S**

**Fields of application**

The applications for this product are domestic cleaning jobs:

*Car, motorbike, boat, caravan, trailer, patio/drive/flagstones, woodwork, brickwork, barbecue, garden furniture etc.*

**Model survey** (P 11 406)

- 1. Electric cable
- 2. Start-/stop switch I/O
- 3. Connection for water (with filter)
- 4. High pressure hose with spray handle incl. of trigger with lock
- 5. Spray lance with bayonet socket
- 6. Multiangle adaptor (not standard)
- 7. TORNADO® nozzle
- 8. POWERSPEED® nozzle (not standard)
- 9. Car nozzle (not standard)
- 10. Undercarriage nozzle (not standard)
- 11. Needle for cleaning of nozzle
- 12. Foam sprayer
- 13. Brush with scraper (not standard)
- 14. Rotating brush (not standard)

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**Specifications:** See model tag of machine.  
Sound pressure level L<sub>pA</sub> measured in accordance with ISO 11202 [DISTANCE 1m] [FULL LOAD]: 74 dB(A).

We reserve the right to alter the specifications.

## 1.0 Preparation

*Before starting up your high pressure washer, we advise you to carefully read through this instruction manual. Follow all instructions to minimize the risk of injuries when using the machine.*

### Prior to operation

Before starting up your machine please check it carefully for any defects. If you find any, do not start up your machine and contact your ALTO distributor.

*Especially check:*

- The insulation of the electric cable should be faultless and without any cracks. If the electric cable is damaged, it should be replaced by an authorized ALTO distributor.

### Mains power connection

The following should be observed when connecting the high pressure washer to the electric installation:

- Only connect the machine to an installation with earth connection.
- The electric installation shall be made by a certified electrician.
- It is strongly recommended that the electric supply to this machine should include a residual current device (GFCI).

### Extension cable

Extension cables should be of a watertight construction and comply with the below-mentioned requirements for length and cable dimensions.

1,0 mm <sup>2</sup>	max	12,5	m
1,5 mm <sup>2</sup>	max	20	m
2,5 mm <sup>2</sup>	max	30	m

- Cable connections should be kept dry and off the ground.
- Always uncoil the extension cable completely to avoid heat damage to the cable.



### Water connection

Connect the high pressure washer by means of a water hose to the water tap (inlet water, max. pressure: 10 bar, max. temperature: 60°C. You may use an ordinary ½" garden hose of **min. 5 m** and **max. 25 m**. Attach the hose using a quick connector.

**NOTE:** Connection to the public mains according to regulations.

**IMPORTANT! Only use water without any impurities.** If there is a risk of running sand in the inlet water (i.e. from your own well), a filter should be mounted.

### Safety precautions

- **WARNING!** High pressure jets can be dangerous. Never direct the water jet at persons, pets, live electrical equipment or the machine itself. 
- The operator and anyone in the immediate vicinity of the site of cleaning should take action to protect themselves from being struck by debris dislodged during operation. Wear goggles during operation. 
- Never try to clean clothes or footwear on yourself or other persons.
- Do not let children or people who have not read the instruction manual operate the machine.
- Never use the machine in an environment where there could be a danger of explosion. If any doubt arises, please contact the local authorities.
- It is not allowed to clean asbestos-containing surfaces with high pressure.

### Safety devices

*Locking device on spray handle*

The spray handle features a locking device (4b).

When the pawl is activated, the spray handle cannot be operated.

*Motor protection*

The washer features an overcurrent release for protection of the motor against overloading. In the case of an increased power consumption (maloperation) the power supply for the motor will automatically be disconnected.

If the motor overload system engages the washer should be restarted. Turn the power switch to position **O** and then to position **I**.

(Please refer to section **"Troubleshooting and correction"**).

## 2.0 Operating Instructions

## Operating Instructions

### 2.1 Operating facilities

- Start-stop rotary switch - I/O (2).
- Trigger (4a) with lock (4b).

### 2.2 Connection

1. Unwind the high pressure hose completely and press the nipple into the spray handle. **NOTE:** Only use one extension hose of max. 7 m.  
**IMPORTANT!** To ensure that the unwinding and winding up of the high pressure hose is only done when the machine is relieved of pressure, only tend the hose winder when the spray handle is detached.
2. Mount the nozzle or any other equipment you want to use.  
**Note:** When attaching to the snap connector, the pawl on the side of the connector should come out again. Press the pawl to detach the equipment.
3. Connect the machine to the water and power supplies.

### 2.3 Start

1. Check that the machine is in vertical position.
2. Activate trigger and let the water run out until any air has escaped from the inlet hose.
3. Turn the start/stop switch (2) to pos. I.

### 2.4 Operation

1. The spray lance is affected by a thrust during operation - therefore always hold it firmly with both hands.
2. Point the nozzle at the ground.
3. Activate the trigger of the spray handle (4a).
4. Always adjust the distance and thus the pressure of the nozzle to the surface which is to be cleaned.

**NOTE:** Do not cover the machine during operation. If the machine is left or not used for 5 minutes, it must be switched off on the start/stop switch.



### 2.5 Suction mode

The machine can take in water from a rain water butt as an example. The water inlet hose must not be too long, approx. 5 m.

1. Make sure that the water butt is not placed on a lower level than the machine.
2. Attach the water inlet hose to the machine and place the other end of it in the water butt.
3. Start the machine.
4. Detach the spray lance and activate the trigger of the spray handle. Keep the trigger activated until water has come out for approx. 15 seconds.
5. Remount the spray lance and the machine is ready for operation.

**NOTE:** The internal filter of the machine is not intended for the filtration of large quantities of impurities. If the water contains leaves, sand or the like, an external suction filter should be mounted. For further information, please contact your nearest ALTO distributor.

### 2.6 End of operation

1. Shut off the water supply and activate the trigger (4a) to relieve the machine of pressure.
2. Stop the machine by turning the start/stop switch (2) to pos. O.
3. Disconnect the plug from the socket.
4. Disassemble spray handle and high pressure hose. Press the blue button and pull the hose at the same time.
5. Wind up the high pressure hose. Lead the hose from the left to the right and back again. If the hose sticks, the cover of the winder can be removed to make sure that the hose has been wound up correctly in two layers.
6. Place spray handle, nozzles and other accessories in the holders/store room on the machine.

Concerning storage, please refer to section 5.0.


## 3.0 Accessories

### Equipment

Only use original accessories.

#### Nozzles

Attached with the „**Click and Clean**“ connector system. Stored on the machine.

Tornado® (7) 

Universal nozzle. Max. effect at a distance of approx. 7 cm.

Powerspeed® (8)



Nozzle with rotating jet for stubborn dirt on hard surfaces. Max. effect at a distance of approx. 10 cm.

Car nozzle (9)



Special nozzle for enamelled surfaces. Marked with a car. Optimal distance: 30 - 50 cm.

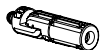
Undercarriage nozzle (10)

90° angled special nozzle for undercarriage and wheel arches. Integrated guide shoes.



## Accessories

### Multiangle adaptor (6)



Adjusted in angles from 0° - 90° for better working posture and cleaning of hard to get at places as for instance barrels or the underside of the lawn mower. Fits all nozzles.

### Extension hose

7 m extension hose increasing the working range.

### Brushes (13, 14)



For cars and other surfaces. Available in more shapes.



### Tube cleaner

15 m long tube cleaner for the cleaning of tubes and drains.

### Water-sand-blasting equipment

For removal of paint and rust. Sand available from do-it-yourself shops.

### Patio Cleaner

Equipment for quick cleaning of patio/drive/flagstones.



### Foam sprayer (12)



Equipment for the application of foam. Holder on the machine. Distance approx. 1 m.

## Detergents

### Stone & Wood Cleaner

For flagstones, brick- and woodwork. Suitable for moss and algae.

### Plastic Cleaner

For plastic and synthetic materials such as garden furniture.

### Metal Cleaner

For cleaning of metal such as garden tools.

### Car Combi Cleaner

For cars etc. With rinsing wax.

### Alu Cleaner

For surfaces of aluminium. Applied with an atomizer.

### Oil & Grease Cleaner



For cleaning of grease and oil on motors for instance. Applied with an atomizer.

## 4.0 Maintenance

**WARNING!** Always disconnect the plug from the socket prior to maintenance or cleaning. To ensure a long and problem free working life, please take the following advice:

- Wash out water hose, high pressure hose, spray lance and accessories before mounting.
  - Clean the couplings of dust and sand.
  - Rinse the foam sprayer after use.
- Any repair should always be made in an authorised workshop with original spare parts.

### 4.1 Cleaning of nozzle

A clogging up in the nozzle causes a pump pressure which is too high. This is why cleaning is required immediately.

1. Stop the machine and disconnect the nozzle.
2. Clean the nozzle with the cleaning needle (11).  
**IMPORTANT:** The needle should only be used when the spray lance is detached!
3. Flush the spray lance backwards with water.

### 4.2 Cleaning of water inlet filter

Clean the water inlet filter regularly once a month or more frequently according to use. Carefully loosen the filter with a screwdriver and clean it. Check that it is intact before re-mounting it.

### 4.3 Cleaning of machine vents

The machine should be kept clean so as to let cooling air pass freely through the machine vents.

## 5.0 Storage

**The machine should be stored in a frost-free room!**

Pump, hose and accessories should always be emptied of water prior to storing as follows:

1. Stop the machine (rotary switch in pos. O) and detach water hose and accessory.
2. Restart the machine and activate the trigger. Let the machine run until no more water runs through the spray handle.
3. Stop the machine and unplug. Wind up the cable and place it on the hook on the back of the machine.
4. Disassemble spray handle and high pressure hose. Press the blue button and pull the hose simultaneously.
5. Wind up the high pressure hose. Place spray handle, nozzles and other accessories in the holders/store room of the machine.

## Storage

Should the machine by mistake be frozen, it will be necessary to check it for damage.

### **NEVER START-UP A FROZEN MACHINE.**

**Frost damages are not covered by the guarantee!**

## 6.0 Questions and answers

Why do I have to use an atomizer for some detergents?

*Some detergents (except from soaps) must be applied undiluted. For that purpose an atomizer or maybe a brush is unique.*

Why must the high pressure washer be stored in a frostfree room?

*The machine may contain water which, when freezing, may damage vital parts.*

May I use an ordinary detergent in my high pressure washer?

*No. You may damage the cleaner and achieve a bad result. The detergents of ALTO have been specially developed for use with a high pressure washer and ensures a correct dosage and a quick effect.*

Can I do anything special to keep my high pressure washer in a good condition?

*Yes, beyond cleaning it carefully before set aside, it will be a good idea to lubricate the couplings now and then with grease or vaseline.*

## 7.0 Trouble shooting guide

To avoid unnecessary disappointments, you should check the following before contacting the ALTO service organisation:

Symptom	Cause	Recommended action
<b>Machine refuses to start</b>	Machine not plugged in Defective socket Fuse has blown Defective extension cable	Plug in machine. Try another socket. Replace fuse. Switch off other machines. Try without the extension cable.
<b>Motor busses</b>	Low voltage or low temperature	Activate the trigger of the spray handle.
<b>Machine stops</b>	Fuse has blown Incorrect mains voltage  Thermal sensor activated	Replace fuse. Switch off other machines. Check that the mains voltage corresponds to specification on the model tag. Wait until the thermal sensor has cooled - turn switch to pos. <b>O</b> and then to pos. <b>I</b> to restart the machine.
<b>Fuse blows</b>	Fuse too small	Change to an installation higher than the amp. consumption of the machine. You may try without the extension cable.
<b>Machine pulsating</b>	Air in inlet hose/pump  Inadequate supply of mains water  Nozzle partially blocked Water filter blocked Hose kinked High pressure hoses too long	Allow machine to run with open trigger until regular working pressure resumes. Check that the water supply corresponds to specifications required (see model tag) NB! Avoid using long, thin hoses (min 1/2") Clean the nozzle (see section 4.1) Clean the filter (see section 4.2) Straighten out hose. Disconnect high pressure extension hoses and retry. (Extension hose max. 7 m).
<b>Machine often starts and stops by itself</b>	Pump/spray handle is leaking	Contact your nearest ALTO Service Centre.
<b>Machine starts, but no water comes out</b>	Pump/hoses or accessory frozen No water supply Water filter blocked Nozzle blocked	Wait for pump/hoses or accessory to thaw.  Connect inlet water. Clean the filter (see section 4.2) Clean the nozzle (see section 4.1)

In case problems other than the above occur, please contact your local ALTO distributor.

### Customer services (UK only):

**ALTO Cleaning Systems Ltd.**  
Bowerbank Way  
Gilwilly Industrial Estate Penrith  
Cumbria CA11 9BN

Phone: 01 768 868 995

### Customer services (AUS):

**ALTO Overseas Inc.**  
1B/8 Resolution Drive  
P.O. Box 797  
Caringbah, N.S.W. 2229

Phone: 02 9524 6122



## 8.0 Warranty conditions

ALTO guarantees high pressure washers for domestic use for 2 years. If your high pressure washer or accessories are handed in for repair, a copy of the receipt must be enclosed.

Guarantee repairs are being made on the following conditions:

- that defects are attributable to flaws or defects in materials or workmanship. (wear and tear as well as misuse are not covered by the guarantee).
- that the directions of this instruction manual have been thoroughly observed.
- that repair has not been carried out or attempted by other than ALTO-trained service staff.
- that only original accessories have been applied.
- that the product has not been exposed to abuse such as knocks, bumps or frost.
- that only water without any impurities has been used.
- that the high pressure washer has not been used for rental nor used commercially in any other way.

Repairs under this guarantee include replacement of defective parts, exclusive of packing and postage/carriage. Besides, we refer to your national law of sale.

The machine should be forwarded to one of the service centres of the ALTO organisation with description/specification of the fault.

Repairs not covered by the guarantee conditions will be invoiced. (I.e. malfunctions due to **Possible Causes** mentioned in section **Troubleshooting Chart** of the instruction manual).

Art. no. 6411048



EN Extension hose

Art. no. 6411150



EN Patio cleaner

Art. no. 6410762



EN Rotating brush

Art. no. 6410766



EN Tube cleaner

Art. no. 6422234



EN Auto kit

## RECEIPT

xx/xx/2001

ALTO high pressure washer

Total ..... €

